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10/003,432

Examiner

Houshang Safaipour

Applicant(s)/Patent under Reexamination

MIYAKE ET AL.

Art Unit

2625

| √ | Rejected |
|---|----------|
| = | Allowed  |

|   | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| Z | Non-Elected  |  |
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|   | Interference |  |

| Α | Appeal   |
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| Cla  | aim      | Date         |                 |          |          |              | Cla      | aim Date |           |          |                |          |          | Cla             | aim           | Date     |               |          |               |          |        |          |             |                     |          |  |  |                 |           |          |          |
|--|----------|--------------|-----------------|----------|----------|--------------|----------|----------|-----------|----------|----------------|----------|----------|-----------------|---------------|----------|---------------|----------|---------------|----------|--------|----------|-------------|---------------------|----------|--|--|-----------------|-----------|----------|----------|
|  |          | 3            |                 |          |          |              |          |          |           |          |                |          |          |                 |               |          |               |          |               | П        | $\top$ | Т        | Ţ <u>~"</u> | Ĭ                   | I        | П  | $\dashv$   |                 |           |          |          |
| Final  | Original | 1/11/2       |                 |          |          |              |          |          |           |          |                | Final    | Original |                 |               |          |               |          |               |          |        | Final    | Original    |                     |          |  |  |                 |           |          |          |
| L L  | δ.       | 1            |                 |          |          |              |          |          |           |          |                | <u> </u> |          |                 |               |          |               |          |               |          |        | LË .     | Ori         |                     |          |  |  |                 |           |          |          |
| $\Delta \omega$                                  | _1_      | W            |                 |          |          |              |          |          |           |          |                |          | 51       |                 |               |          |               |          |               |          |        |          | 101         |                     |          |  |  |                 |           | $\Box$   |          |
| LX   | 2        | <u>X</u>     |                 | _        |          |              | _        |          |           |          |                |          | 52       | _               |               |          | ⊥ i           | $\bot$   |               | _        |        |          | 102         |                     |          | <u> </u>   | L  | Ш               |           | $\Box$   |          |
| $\triangle$                                      | 3        | Μ.           |                 | _        | $\dashv$ | 4            | _        |          | _         |          |                |          | 53       |                 |               | $\bot$   | Li            | _        | $\perp$       | _        |        |          | 103         |                     |          | ╙  | L  |                 | _         | _        |          |
| 1  | 4        | Ξ            |                 | _        | _        |              |          | _        | _         | _        |                |          | 54       | L.              |               |          | 1 1           | $\perp$  | $\perp$       |          |        |          | 104         |                     |          | <u> </u>   | 匚  | Ш               | _         | $\dashv$ |          |
| 2  | 5        | Ξ            | $\perp$         | -        | _        | _            |          | _        | _         | _        |                |          | 55       |                 | _             | _        | Ш             |          | 11            |          |        |          | 105         |                     | $\perp$  | ╙  | ᆫ  | Щ               | _         | _        |          |
| 3  | 6        | =            | $\dashv$        | -        | _        |              | $\dashv$ | -        | $\dashv$  | _        |                |          | 56       | Н               |               | _        | 111           | _        | <b>.</b>      |          |        |          | 106         | _                   |          | ┺  | L  |                 | -         | _        | ᆜ        |
| 4  | 7        | =            |                 | $\dashv$ |          | $\dashv$     | $\dashv$ | $\dashv$ | -         | _        |                |          | 57       | <u> </u>        | $\rightarrow$ |          | 11            |          |               |          |        |          | 107         |                     | -        | ↓  | <b>!</b>   |                 | 4         | $\dashv$ | 긕        |
| 5  | 8        | 5            | $\square$       | $\dashv$ |          | -            | -        | $\dashv$ | -         | _        |                |          | 58       | $\vdash$        | _             | -        | 1-1           | -        | -             |          |        |          | 108         | $\vdash$            | _        | ╄  | <b>!</b>   | Н               | _         |          | 4        |
| 6<br>7   | 9<br>10  | =            | $\dashv$        |          |          |              | -        | $\dashv$ | $\dashv$  |          |                |          | 59<br>60 | $\vdash$        |               | $\dashv$ | ₩             | —        | +             |          |        |          | 109         | $\vdash$            |          | ┼  | ⊢  | Н               | $\dashv$  | $\dashv$ | $\dashv$ |
| 8  | 11       | 2<br>1       | -               | $\dashv$ | -        | $\dashv$     | $\dashv$ | $\vdash$ | $\dashv$  |          |                |          | 61       | Н               | -             | +        | 1 1           | +        | +             |          |        |          | 110         | $\vdash$            | +        | $\vdash$   | ⊢  | Н               | -         | $\dashv$ | $\dashv$ |
| ů  | 12       | ź            | $\dashv$        | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$ | $\dashv$ | $\dashv$  | -        |                |          | 62       | Н               | +             | +        | + +           | +        | + +           | -        |        |          | 111<br>112  |                     | +        | ┢  | H  | -               | $\dashv$  | -        | $\dashv$ |
| 9  | 13       | Ž<br>Ž       | $\vdash$        | +        | $\dashv$ | +            | -        | $\vdash$ | $\dashv$  | -        |                |          | 63       | ┝╾┤             | +             | +        | +             | +        | +             | $\dashv$ |        | -        | 113         | $\vdash$            | +        | $\vdash$   | H  | Н               | $\dashv$  | $\dashv$ | ᅱ        |
| 10   | 14       | =            | $\vdash$        | $\dashv$ | $\dashv$ | -            |          | $\vdash$ | $\dashv$  |          |                |          | 64       | $\vdash$        | $\dashv$      | +        | $\forall$     | +        | +             | $\dashv$ |        |          | 114         | $\vdash$            | +        | $\vdash$   | H  | H               | $\dashv$  | $\dashv$ | $\dashv$ |
| 11   | 15       | =            | $\vdash$        | $\dashv$ | _        | -            | -        |          | $\dashv$  |          |                |          | 65       | -               | _             |          | 1 1           | $\pm$    | 1 1           |          |        |          | 115         | -                   | +-       | $\vdash$   | H  | Н               | +         | $\dashv$ | ㅓ        |
| 12   | 16       | Ξ            | $\Box$          | $\dashv$ | 1        | 寸            | $\neg$   | _        | _         | _        |                |          | 66       | H               |               | ╅        | $\Box$        | $\dashv$ | 1 1           |          |        |          | 116         | $\overline{}$       |          | ╁  | H  | Н               | $\dashv$  | $\dashv$ | ᅥ        |
| 13   | 17       | =            | $\Box$          | 寸        | 1        | $\neg$       | 一        |          | 十         |          |                |          | 67       |                 |               | ┰        | 11            |          | 1             | -1       |        |          | 117         |                     | +        | $\vdash$   | <del>                                     </del> | Н               | _         | $\dashv$ | ᅥ        |
|  | 18       | _            |                 | $\dashv$ | _        | $\neg$       | $\neg$   |          | $\neg$    |          |                |          | 68       | $\Box$          |               | $\top$   | 1             | _        | 1 1           | 1        |        |          | 118         | _                   |          | ╁  | H  | Н               | $\dashv$  | $\dashv$ | $\dashv$ |
|  | 19       |              |                 | $\dashv$ | _        |              |          | _        | $\dashv$  |          |                |          | 69       |                 | -             | _        | $\dagger$     | $\top$   | 1             | 1        |        |          | 119         | $\vdash$            | $\top$   | $\vdash$   | -  | Н               | -         | $\dashv$ | ᅥ        |
|  | 20       |              |                 |          |          | $\neg$       | 一        |          | $\dashv$  |          |                |          | 70       |                 |               | i        | 11            | +        | 1             | -1       |        |          | 120         | 1                   |          | $\vdash$   | 1  | $\vdash$        | 一         | $\dashv$ | ᅥ        |
|  | 21       |              |                 | $\neg$   |          |              | 一        |          | $\neg$    | _        |                |          | 71       | П               |               | -        | 1 1           |          | $\top$        |          |        |          | 121         |                     | $\dashv$ | 十  | T  | Н               | 十         | 一        | ᅥ        |
|  | 22       | $\vdash$     |                 | T        |          |              | 寸        | $\neg$   | $\neg$    |          |                |          | 72       |                 |               | $\dashv$ | 1 1           | $\dashv$ | 1 1           | -1       |        |          | 122         | $\vdash$            |          | <del>                                     </del> | t  | Н               | $\dashv$  | ヿ        | $\dashv$ |
|  | 23       |              | П               | 寸        |          |              | $\neg$   |          | _         |          |                |          | 73       | П               |               | $\top$   | 1             | 1        | 1             |          |        |          | 123         | $\Box$              |          | 1  |  | Н               | 一         | 寸        | ヿ        |
|  | 24       |              |                 |          |          | $\neg$       |          |          | $\neg$    |          |                |          | 74       |                 |               | $\top$   | Ħ             |          | $\top$        | _        |        |          | 124         |                     |          | ⇈  | $\vdash$   | П               | 寸         | ヿ        | ᅥ        |
|  | 25       |              |                 |          |          |              |          | $\neg$   | $\neg$    |          |                |          | 75       |                 |               |          | 1 1           | 1        |               |          |        |          | 125         |                     |          | T  |  | П               | 7         | $\dashv$ | ヿ        |
|  | 26       |              |                 |          |          |              |          |          | $\exists$ |          |                |          | 76       |                 |               |          | $\Box$        | $\top$   | $\top$        |          |        |          | 126         |                     |          | 1  | 1  | П               |           | ヿ        | ヿ        |
|  | 27       |              |                 |          |          |              |          |          |           |          |                | -        | 77       |                 |               |          | $\sqcap$      |          |               |          |        |          | 127         |                     |          |  |  | П               |           | コ        | ヿ        |
|  | 28       |              |                 |          |          |              |          |          |           |          |                |          | 78       |                 |               |          |               |          |               |          |        |          | 128         |                     |          |  | Г  | П               | $\exists$ |          | П        |
|  | 29       |              |                 |          |          |              |          |          |           |          |                |          | 79       |                 |               |          |               |          |               |          |        |          | 129         |                     |          |  |  |                 |           |          |          |
|  | 30       |              |                 |          |          |              |          |          |           |          |                |          | 80       |                 |               |          |               |          |               |          |        |          | 130         |                     |          |  |  |                 |           | $\Box$   |          |
|  | 31       |              |                 | $\perp$  |          |              |          |          |           | ╝        |                |          | 81       |                 |               |          | Ш             |          |               |          |        |          | 131         |                     |          |  |  |                 |           | $\Box$   |          |
|  | 32       | <u> </u>     |                 | _        |          |              |          |          |           |          |                |          | 82       |                 |               |          |               |          |               |          |        |          | 132         |                     |          |  |  |                 |           |          |          |
|  | 33       | L            |                 | _        | _        | $\downarrow$ | _        | _        |           | _        |                |          | 83       |                 |               |          | $\perp$       |          |               | :        |        |          | 133         |                     |          |  | L  | Ш               |           | $\Box$   |          |
| <u> </u>   | 34       | L            | $\sqcup$        |          | _        | _            | _        |          | 4         | _        |                |          | 84       | $\sqcup$        |               | _   _    | $\perp$       | $\bot$   | $\perp \perp$ | _        |        |          | 134         | $\Box$              |          | 1_   | <u> </u>   | Ш               |           | Ц        |          |
| <u> </u>   | 35       | _            |                 | _        | _        |              |          | _        | _         | _        |                |          | 85       | $\sqcup$        | _             |          | +             | _ _      | $\perp \perp$ | _        |        |          | 135         | $\Box$              |          | 1_   | L_   | Ш               | ļ         |          |          |
|  | 36       |              |                 | -        | -        |              | _        | _        | _         | 4        |                |          | 86       | Щ               | $\perp$       | _        | $\sqcup$      |          | $\perp \perp$ | _ :      |        |          | 136         | $\sqcup$            | $\dashv$ | <u> </u>   | $ldsymbol{f eta}$                                | Ш               | _         | _        | _        |
| <u> </u>   | 37       | <u> </u>     | $\vdash \vdash$ | -        | $\dashv$ | _            |          |          |           | _        |                |          | 87       | $\sqcup$        | _             | _        | $\sqcup$      |          | $\vdash$      | _        |        |          | 137         | $\sqcup \downarrow$ |          | 1_   | <u> </u>   | ╙               | _         | _        |          |
|  | 38       | <u> </u>     | $\sqcup$        | $\dashv$ | -        | -+           | _        |          | $\dashv$  |          |                |          | 88       |                 | $\dashv$      |          | ++            |          | +             | _        |        |          | 138         | $\vdash$            | $\bot$   | ــــ   | Ш  | $\vdash \dashv$ | _         | _        | _        |
| <b> </b> -                                       | 39       | <u> </u>     | $\vdash$        | -+       | $\dashv$ | $\dashv$     | -        | $\dashv$ | $\dashv$  | ᅴ        |                |          | 89       | Н               | -+            | +        | $\vdash$      | -        | $\vdash$      |          |        |          | 139         | $\vdash \vdash$     | +        |  | $\vdash$   | Н               | 4         |          | _        |
| $\vdash\vdash$                                   | 40       | <u> </u>     | $\vdash$        | -        | $\dashv$ | $\dashv$     | $\dashv$ | $\dashv$ | $\dashv$  | -        |                |          | 90       | $\vdash$        | -             |          | $\vdash$      |          | $\dashv$      |          |        |          | 140         | $\vdash \vdash$     | - -      | ┼-   | _  | $\vdash \vdash$ | -         |          | 4        |
| $\vdash$   | 41       | -            | $\vdash$        |          |          | $\dashv$     | -        |          | $\dashv$  | $\dashv$ |                | -        | 91       | Н               |               |          | $\vdash$      | - -      | $\dashv$      |          |        |          | 141         |                     | +        | $\vdash$   | $\vdash$   | $\vdash$        |           |          | $\dashv$ |
|  | 42<br>43 | H            | $\dashv$        | -+       | -        |              | _        | -        | $\dashv$  | ᅱ        |                |          | 92       | $\vdash \vdash$ | +             |          | ╄╌┤           | +        | +             |          |        |          | 142         |                     | +        | ╀  | $\vdash$   | $\vdash \vdash$ |           | -        | _        |
|  | 44       |              |                 | $\dashv$ | $\dashv$ | -            | $\dashv$ |          | +         | -        |                |          | 93<br>94 | $\vdash$        | -             | +        | ┾╌┥           |          | ╁┼            |          |        |          | 143         | $\dashv$            | +        | 1  | $\vdash$   | $\vdash \dashv$ | -         | -+       | 4        |
| $\vdash$   | 45       |              | -               | $\dashv$ | -+       | $\dashv$     | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ |                |          | 95       | $\dashv$        | +             | +-       | <del>  </del> | +        | +             |          |        |          | 144         | $\dashv$            | -+-      | ₩  | $\vdash$   | $\vdash \dashv$ | -         | $\dashv$ | $\dashv$ |
| $\vdash \vdash \vdash$                           | 46       | $\vdash$     | -               | $\dashv$ | -+       | $\dashv$     |          | ᅱ        | $\dashv$  | _        |                |          | 96       | $\vdash \vdash$ | +             | +        | +             | +        | + +           | -        |        |          | 145         |                     |          | ⊢  | $\vdash$   | $\vdash \vdash$ | $\dashv$  |          | $\dashv$ |
| $\vdash$   | 47       | _            | $\dashv$        | -+       | -        |              | -        | $\dashv$ | +         | $\dashv$ |                |          | 97       | $\vdash \vdash$ |               | +        | ++            | $\dashv$ | ┼             | - :      |        |          | 146         | $\dashv$            |          | ╀  |  | Н               | $\dashv$  |          | $\dashv$ |
| <del>                                     </del> | 48       |              | $\dashv$        | -+       | $\dashv$ | -            | -        | $\dashv$ | $\dashv$  | ᅱ        |                |          | 98       | $\vdash$        | +             | +-       | +             | +        | ╁╌┼           | -        | ŀ      | $\dashv$ | 147         | $\dashv$            | +        | $\vdash$   | $\vdash$   | $\vdash \dashv$ | -         | $\dashv$ |          |
|  | 49       | $\vdash$     | $\dashv$        | +        | $\dashv$ | $\dashv$     | $\dashv$ |          | -+        | $\dashv$ |                |          | 99       | -+              | +             | +        | ╁             |          | ╁┼            |          | ŀ      |          | 148         | $\dashv$            | +        | -  | $\vdash$   | $\vdash$        | -         | $\dashv$ | $\dashv$ |
| $\vdash \vdash \vdash$                           | 50       | $\vdash$     | $\dashv$        | ┰        | $\dashv$ | $\dashv$     | -+       | $\dashv$ | $\dashv$  | $\dashv$ |                |          | 100      |                 | +             | +        | $\vdash$      |          | ┿             | $\dashv$ |        |          | 149<br>150  | -+                  | ╌        | +  | $\vdash$   | $\vdash \vdash$ | -         | -+       | $\dashv$ |
| ш_   | 30       | $oxed{oxed}$ |                 |          | ш.       | $\perp$      |          |          |           |          | :.::: <b>\</b> |          | IUU      |                 |               |          |               |          |               | ::       | ···[   |          | 150         |                     | _1_      |  |  | Ш               |           | 1        | - 1      |